Specification of Competency Standards for the Automotive Industry Unit of Competency

Functional Area - Vehicle Servicing

Title	Master the complicated techniques of vehicle body and frame
Code	108739L4
Range	This unit of competency is applicable to technicians working at vehicle servicing and inspection departments. Practitioners should be able to master the effect of vehicle body and frame affecting driving stability, noise, seepage and compartment appearance to enhance the efficiency and accuracy of complicated defects inspection.
Level	4
Credit	6 (For Reference Only)
Competency	 Performance Requirements Knowledge (Relevant vehicle body and frame) Materials for vehicle body and frame

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	 Conduct inspection and defect analysis on respective vehicle body and frame according to abnormal symptoms of noise or seepage when vehicle running caused by unsatisfactory compartment sealing. Conduct inspection and defect analysis according to symptoms of abnormal compartment appearance, such as: Uneven discolouration of coating and colour fading Abnormal rustiness Review the causes of defects and diagnostic methods; submit report to seniors covering preventive measures, instructions on inspection and maintenance as well as suggestions for improvement. Provide appropriate repairing guidelines according to the extent of rustiness or damages of vehicle frame or structural panels, such as specification of materials, welding methods and joining standards, to guarantee that the structural strength (including the dimension of vehicle body) can be recovered to the original standard of manufacturer and met with respective legislative requirements.
Assessment Criteria	 The integrated outcome requirements of this unit of competency are that the practitioner being assessed shall prove that he/she is: Capable of mastering the structure and functions of vehicle body and frame (including compartment trim, etc.) to enhance the efficiency and accuracy of complicated defects inspection, such as driving stability, noise, seepage and compartment appearance; Capable of mastering the characteristics and application limits of different materials of vehicle body and frame as well as the impact of joining methods on the structure and cabin appearance, etc., to solve the complicated technical problems, such as yawing and colour fading, etc., effectively and accurately; Capable of mastering the strength of vehicle frame or structural panels required by the vehicle manufacturer and respective regulations; compiling appropriate repairing guidelines; and Capable of compiling reports covering preventive measures and providing suggestions for improvement, etc. according to the specific defects found in respective vehicle body and frame (including the compartment trim).
Remark	The credit for this competency unit assumes that the practitioner already has possessed extensive knowledge of automotive body construction and knowledge of vehicle body repair (body correction, welding and painting).